

Name: _____

Exam Style Questions

Translations



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

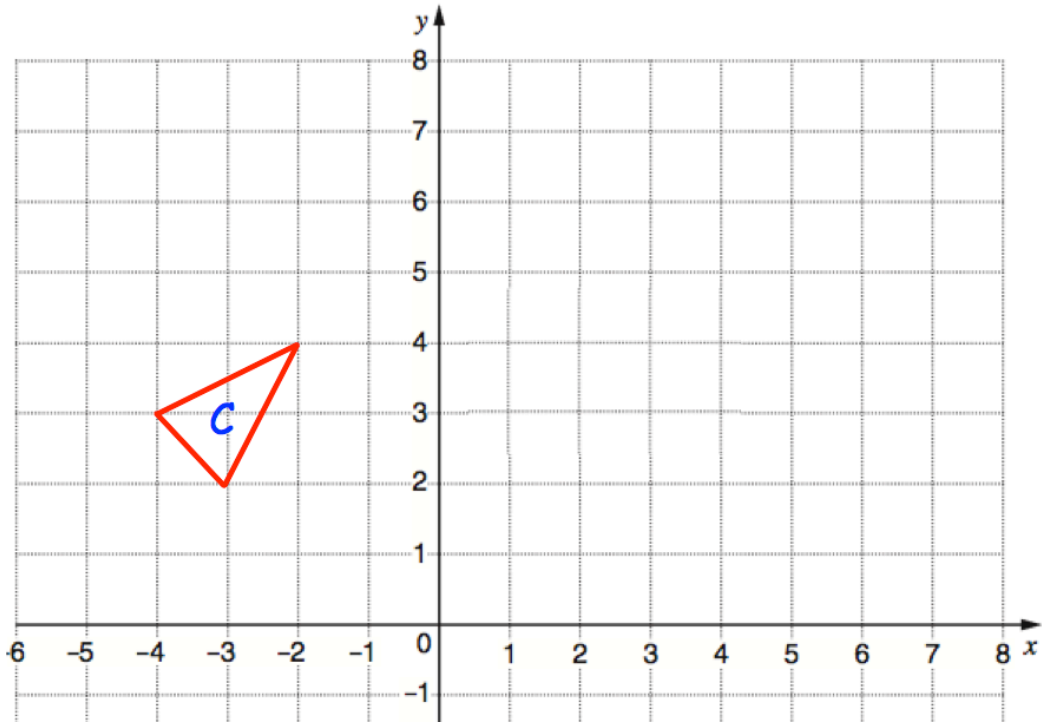
Secondary

Video 325

Video 326



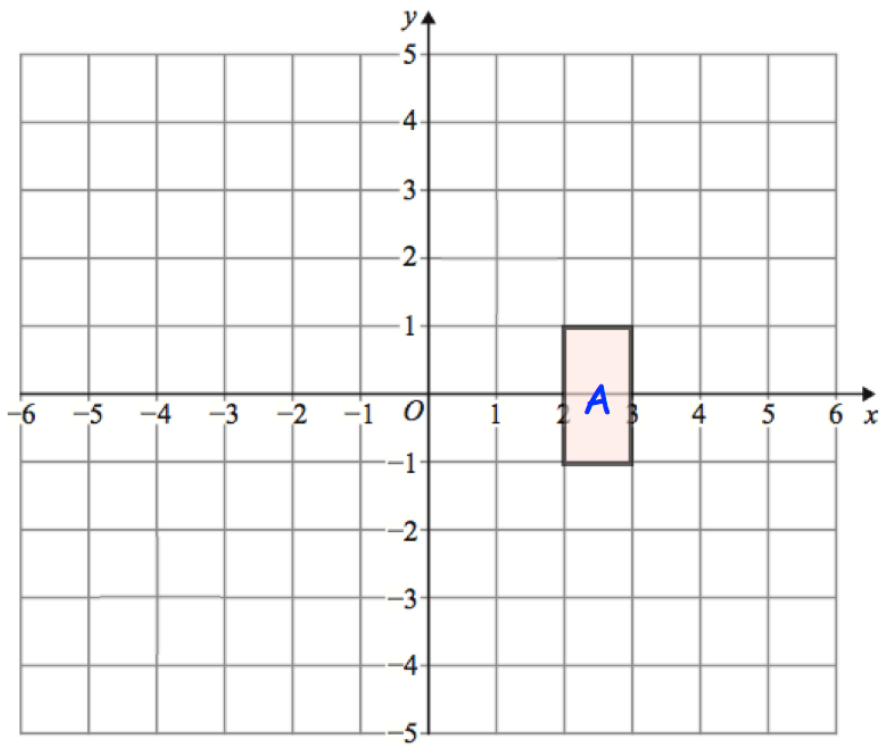
1.



Translate triangle C by 8 squares right and 1 square down.

(1)

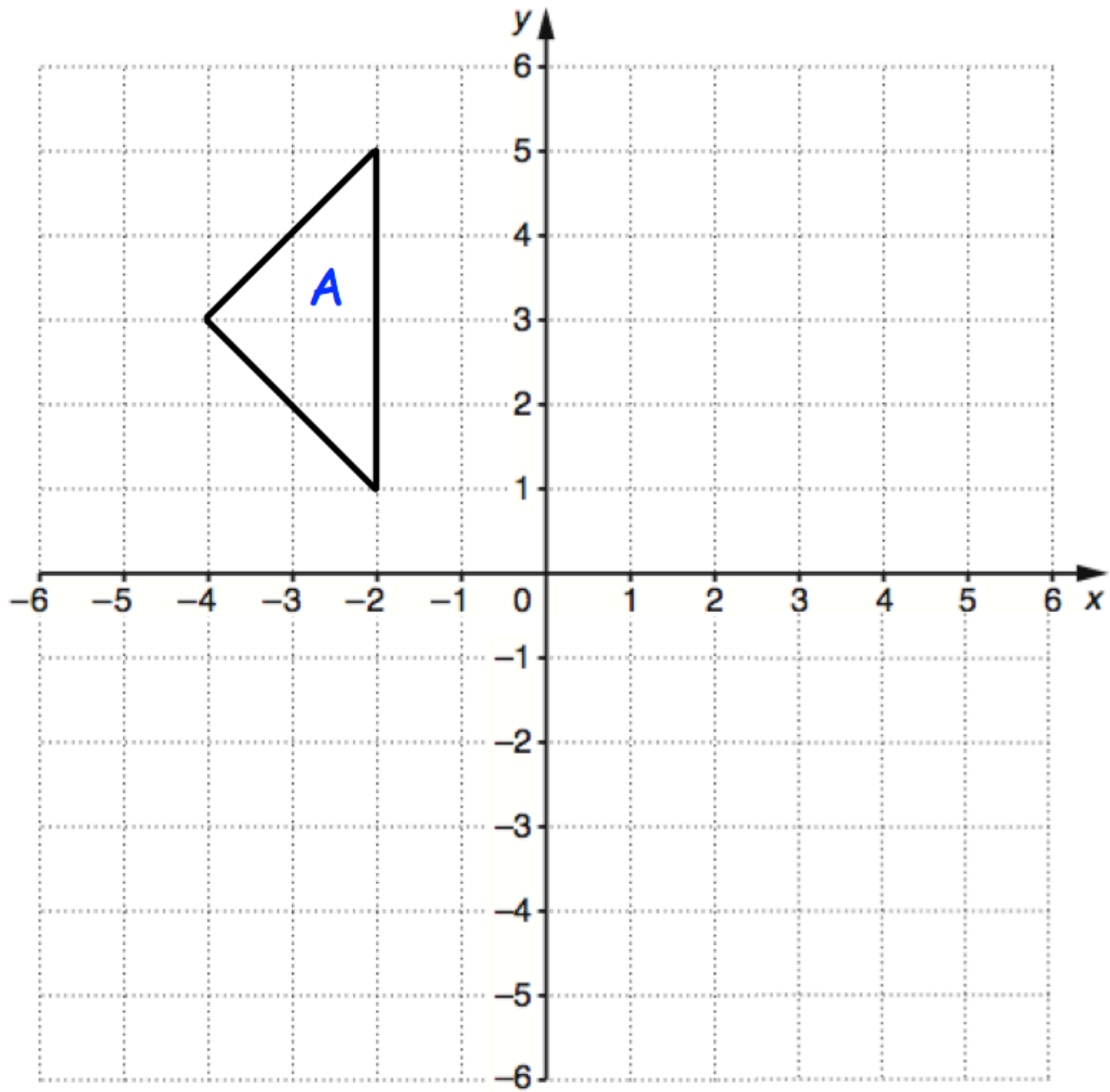
2.



Translate rectangle C by 4 squares left and 3 square up.

(1)

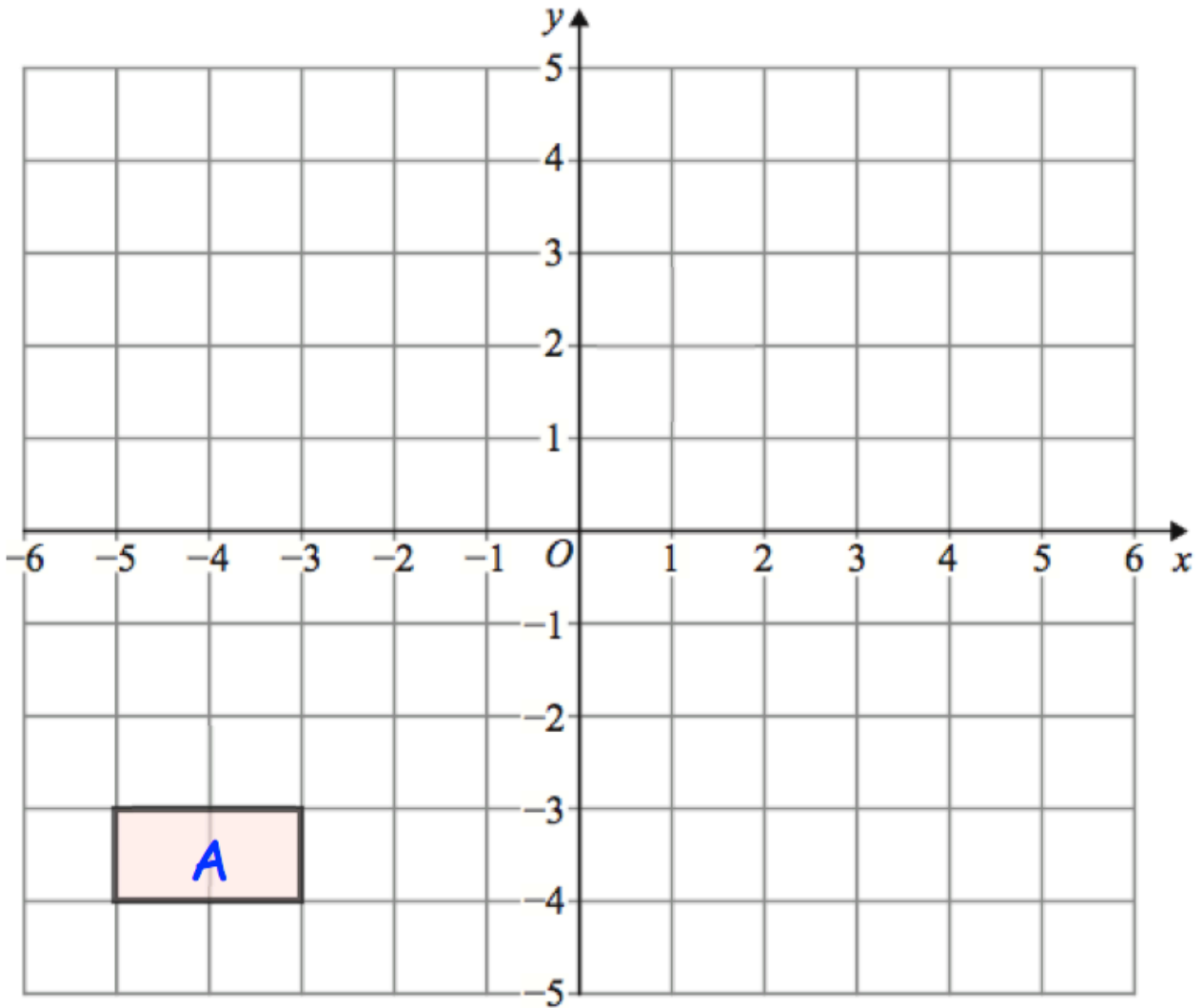
3.



Translate triangle A by $\begin{pmatrix} 5 \\ -6 \end{pmatrix}$.

(2)

4.

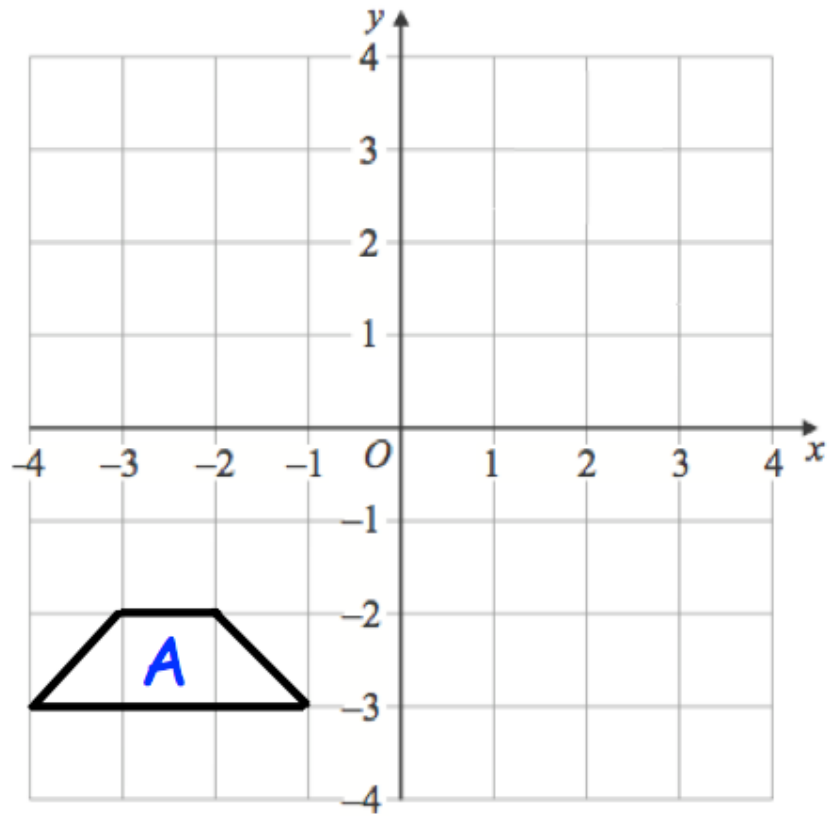


Translate rectangle A by $\begin{pmatrix} 7 \\ 5 \end{pmatrix}$

Label the new shape B.

(2)

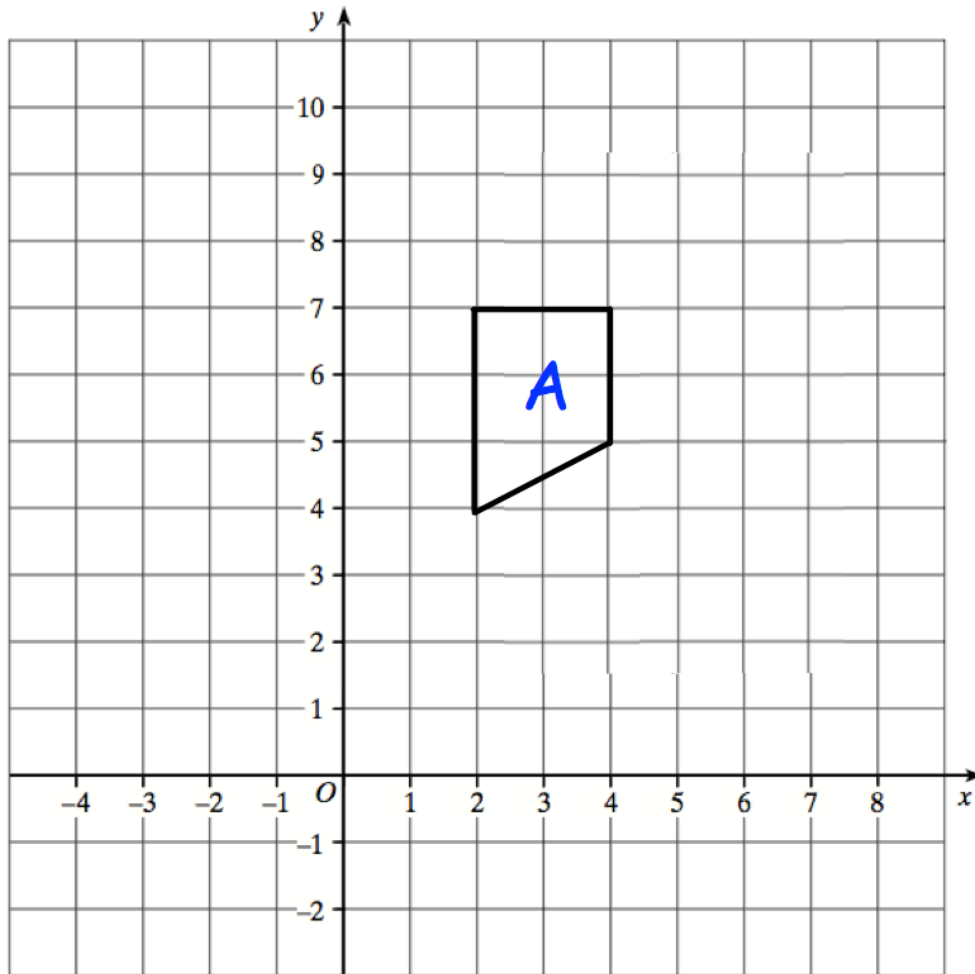
5.



Translate trapezium A by the vector $\begin{pmatrix} 0 \\ 4 \end{pmatrix}$

(1)

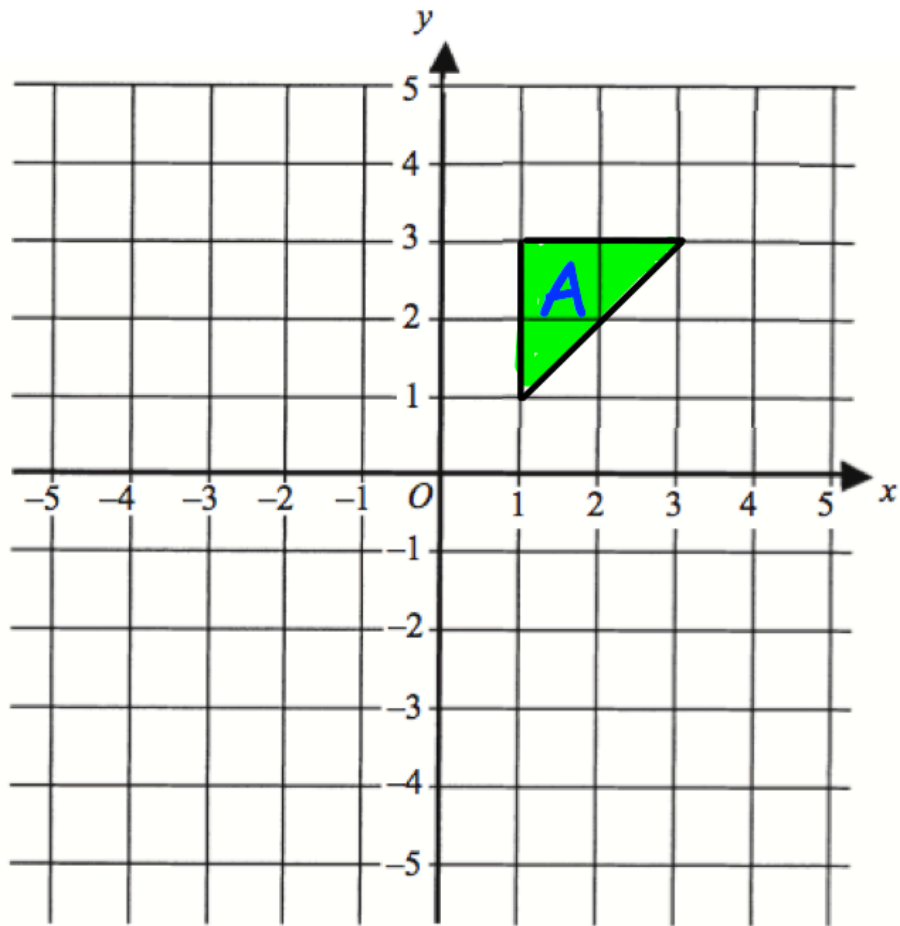
6.



Translate shape A by the vector $\begin{pmatrix} -5 \\ -2 \end{pmatrix}$

(2)

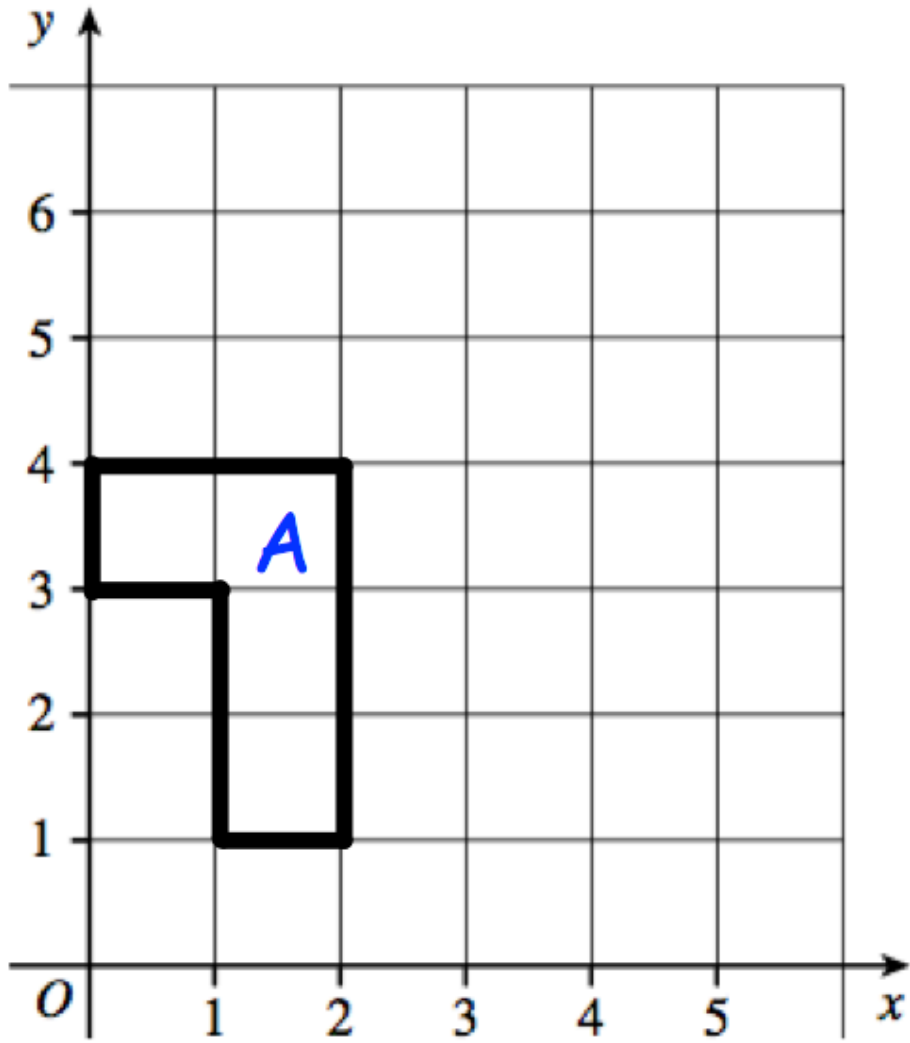
7.



Translate triangle A by the vector $\begin{pmatrix} -3 \\ 1 \end{pmatrix}$

(2)

8.



(a) Translate shape A by the vector $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$ and label B.

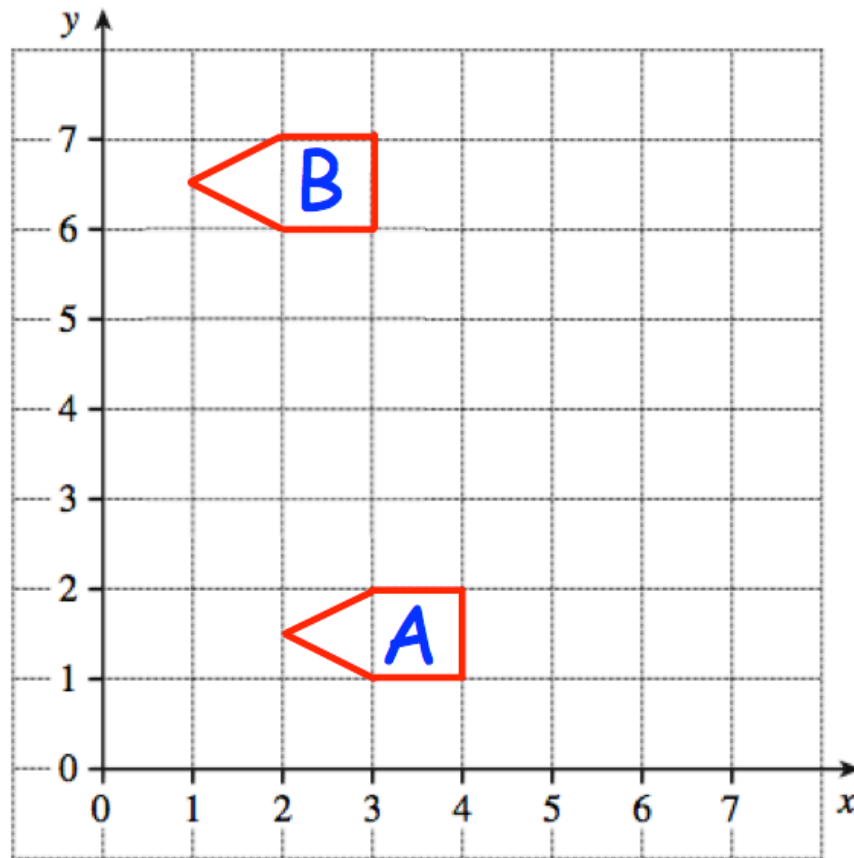
(2)

(b) Write down the translation vector that would return B to A.

$$\begin{pmatrix} \dots\dots\dots \\ \dots\dots\dots \end{pmatrix}$$

(1)

9.

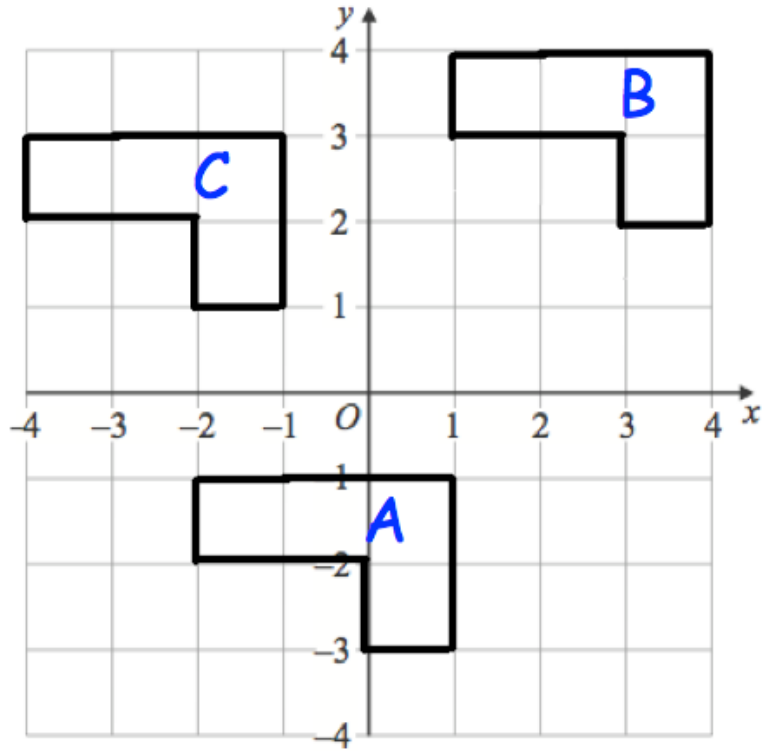


Write down the translation vector that would take A to B.

$$\begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

(1)

10.



(a) Write down the translation vector that would take A to B.

$$\begin{pmatrix} \dots\dots\dots \\ \dots\dots\dots \end{pmatrix}$$

(1)

(b) Write down the translation vector that would take B to C.

$$\begin{pmatrix} \dots\dots\dots \\ \dots\dots\dots \end{pmatrix}$$

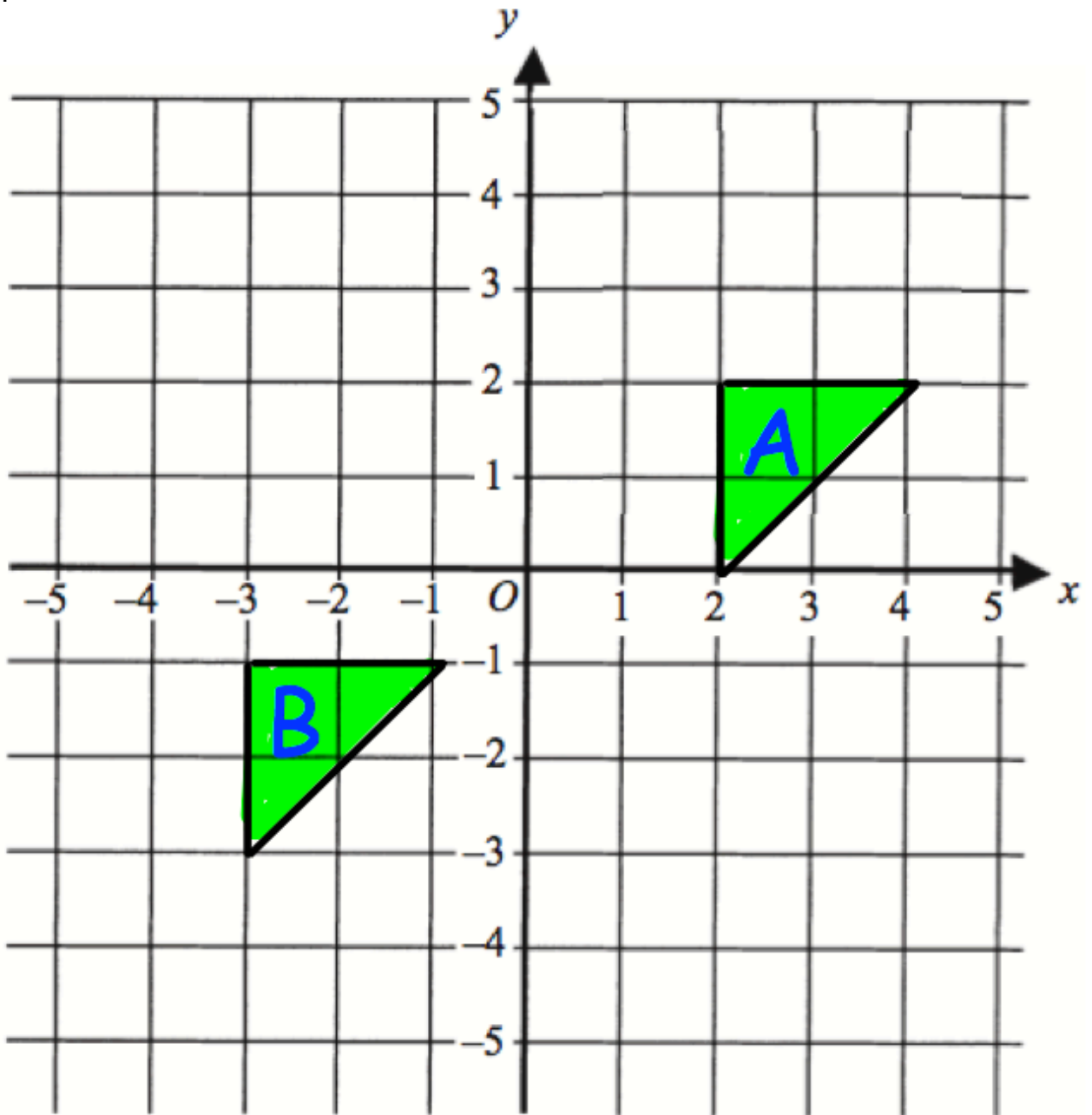
(1)

(c) Write down the translation vector that would take C to A.

$$\begin{pmatrix} \dots\dots\dots \\ \dots\dots\dots \end{pmatrix}$$

(1)

11.



Describe fully the single transformation that maps shape A onto shape B.

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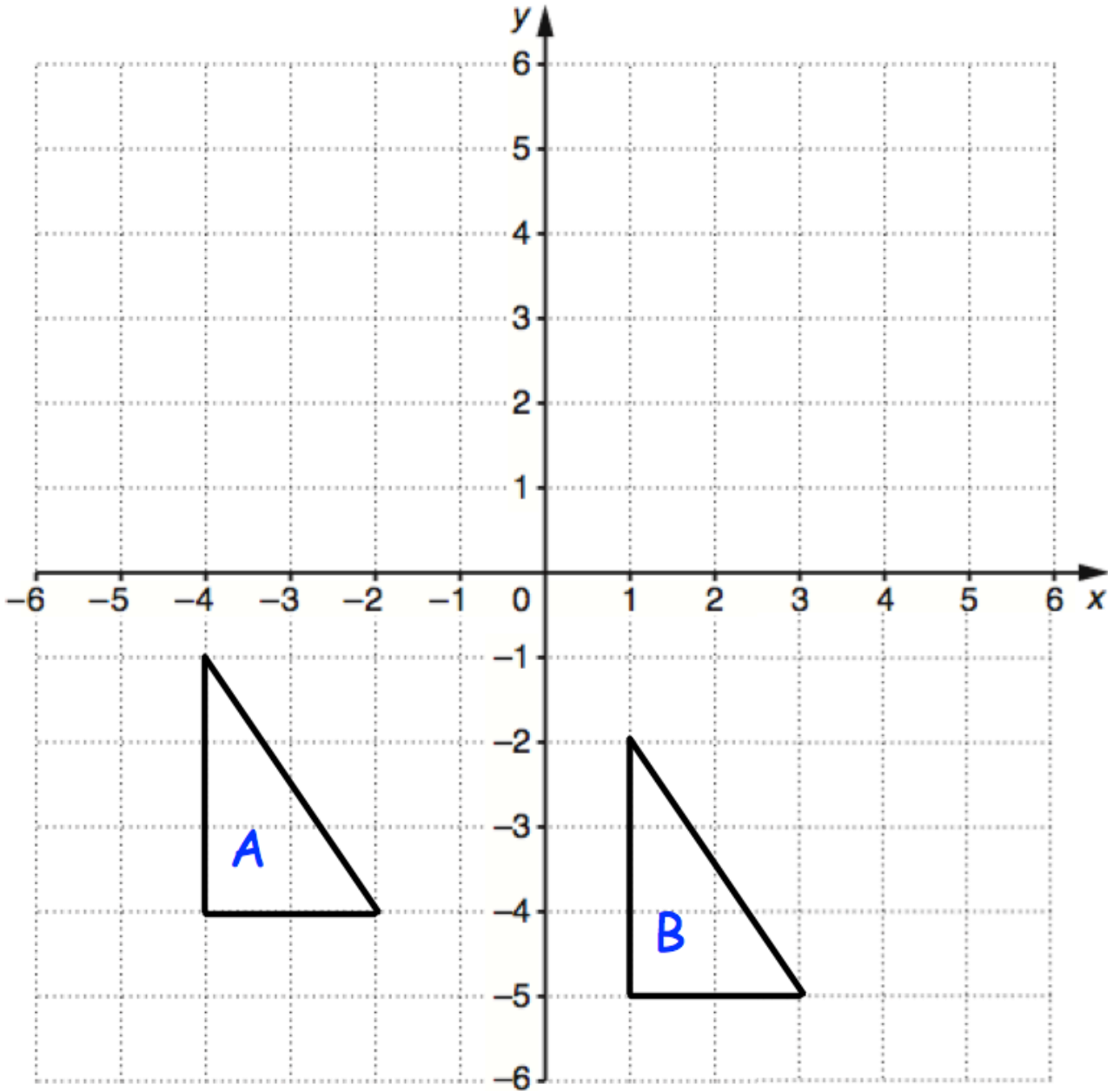
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(2)

12.



Describe fully the single transformation that maps shape A onto shape B.

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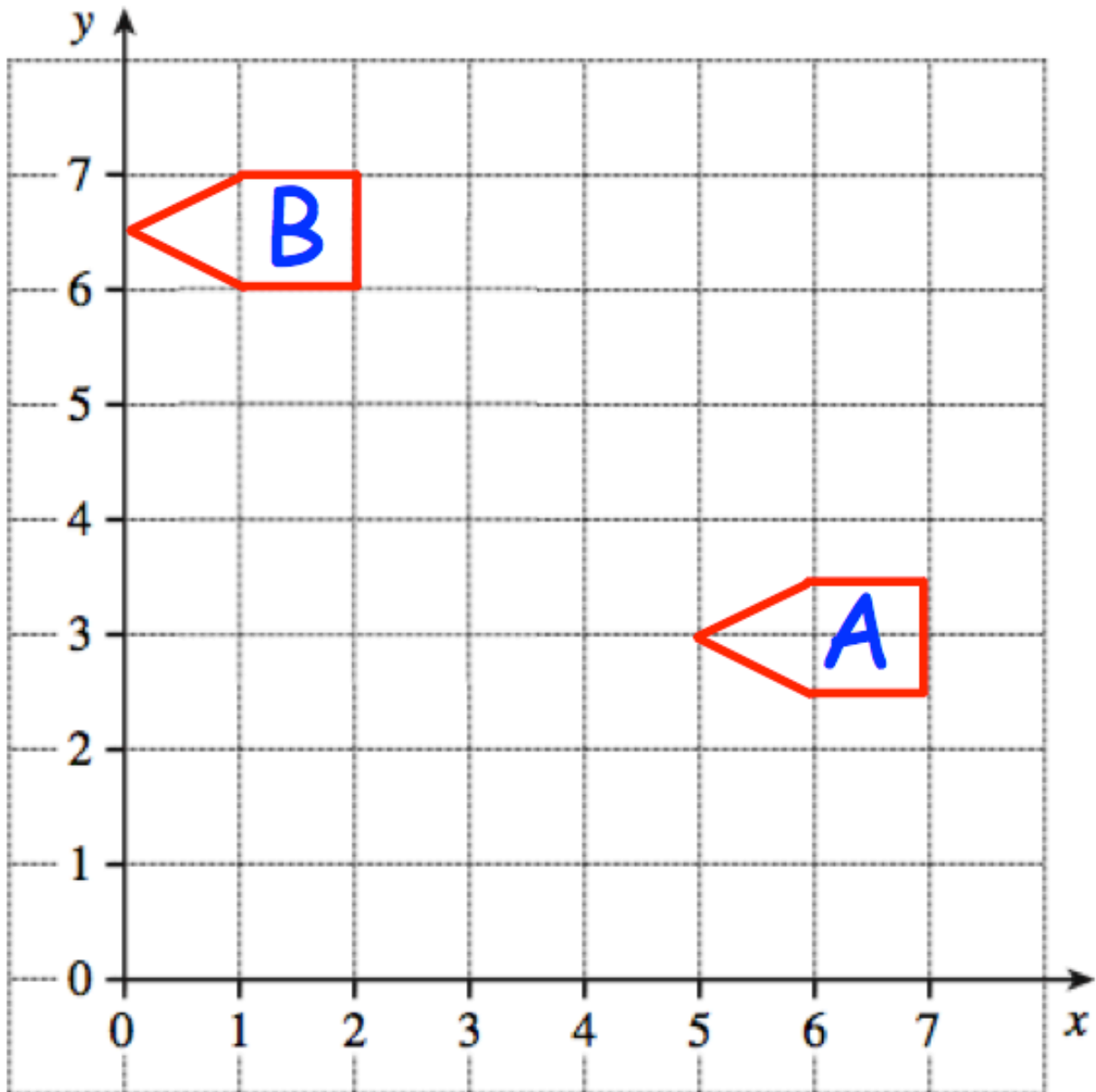
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(2)

13.



Describe fully the single transformation that maps shape A onto shape B.

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(2)